

Title (en)  
PROCESS FOR THE PREPARATION OF CEPHEM DERIVATIVES

Title (de)  
VERFAHREN ZUR HERSTELLUNG VON CEPHEMDERIVATEN

Title (fr)  
PROCEDE DE PREPARATION DE DERIVES DE CEPHEM

Publication  
**EP 0613480 B1 19990331 (EN)**

Application  
**EP 92919241 A 19920904**

Priority  
• KR 910020505 A 19911118  
• KR 9200041 W 19920904

Abstract (en)  
[origin: WO9310123A1] A process for preparing \$g(b)\$-lactam derivatives of formula (I), wherein R<sup>1</sup> represents hydrogen or a metal salt; and R<sup>2</sup> represents hydrogen, acetoxy methyl, (2,5-dihydro-2-methyl-6-hydroxy-5-oxo-as-triazin-3-yl)thiomethyl or (1-methyl-1H-tetrazol-5-yl)thiomethyl is disclosed. This process comprises the steps of (a) reacting triphenylphosphine and hexachloroethane or carbon tetrachloride with 2-(2-aminothiazol-4-yl)-2-\$(syn)\$-methoxyimino acetic acid in an organic solvent to give the corresponding acyloxyphosphonium chloride derivative of formula (II), and (b) acylating a previously silylated derivative of 7-ACA with this acyloxyphosphonium chloride derivative without its isolation.

IPC 1-7  
**C07D 501/06**

IPC 8 full level  
**A61K 31/545** (2006.01); **A61K 31/546** (2006.01); **A61P 31/04** (2006.01); **C07D 501/00** (2006.01); **C07D 501/06** (2006.01); **C07D 501/20** (2006.01); **C07D 501/22** (2006.01); **C07D 501/26** (2006.01); **C07D 501/34** (2006.01); **C07D 501/36** (2006.01)

CPC (source: EP KR US)  
**A61P 31/04** (2017.12 - EP); **C07D 501/00** (2013.01 - EP US); **C07D 501/06** (2013.01 - KR)

Designated contracting state (EPC)  
FR IT

DOCDB simple family (publication)  
**WO 9310123 A1 19930527**; AT 403048 B 19971027; AT A903092 A 19970315; CH 684091 A5 19940715; DE 4293959 C2 19960829; DE 4293959 T1 19950126; DK 56694 A 19940518; EP 0613480 A1 19940907; EP 0613480 B1 19990331; ES 2070101 A1 19950516; ES 2070101 B1 19960216; GB 2275927 A 19940914; GB 2275927 B 19951004; GB 9409758 D0 19940720; JP H07501072 A 19950202; JP H0811755 B2 19960207; KR 930010043 A 19930621; KR 950014571 B1 19951208; NL 9220025 A 19941201; SE 505050 C2 19970616; SE 9401706 D0 19940518; SE 9401706 L 19940707; US 5317099 A 19940531

DOCDB simple family (application)  
**KR 9200041 W 19920904**; AT 903092 A 19920904; CH 220893 A 19920904; DE 4293959 A 19920904; DE 4293959 T 19920904; DK 56694 A 19940518; EP 92919241 A 19920904; ES 9350013 A 19930716; GB 9409758 A 19920904; JP 50915893 A 19920904; KR 910020505 A 19911118; NL 9220025 A 19920904; SE 9401706 A 19940518; US 95935992 A 19921013